



## Reliable and fast performance for multi-part forms or fine business correspondence

### Rugged, reliable dedicated forms printers, backed by a 3-year standard warranty

Whether you need regular output of continuous multi-part forms, fine business correspondence or combinations of both, an OKI® ML400 Series printer is the solution.

ML400 Series printers—9-pin or 24-pin—handle the printing needs of the most demanding environments: point-of-sale, automation and utility applications such as wholesale or retail sales counters, financial departments, and manufacturing or warehouse sites. The 24-pin models also produce letter-quality type and high-resolution graphics for the office and executive suite.

**Unequaled performance technology** – ML400 Series printers sport features that give them a strong edge over their predecessors as well as the competition:

- An internal cooling fan provides continuous airflow for the printhead—maximizing throughput productivity for long, unattended print jobs
- Additional feed rollers provide precise forms handling and printed-character placement accuracy
- The 3-piece top cover provides easy access and unsurpassed break resistance

**Fast, with finesse** – ML400 Series printers run the gamut of paper types and envelopes at lightning speed: 9-pin ML420/421 models reach 570 cps in SuperSpeed Draft mode<sup>1</sup> and 24-pin ML490/491 models turn out 105 cps in Letter-quality mode<sup>2</sup>.

All have a rugged printhead with an average life expectancy of 400 million-character, made up of powerful samarium magnets and stored-energy pins that deliver precise, sharp characters all the way through to the last page of a 6-part form.<sup>3</sup>

The patented OKI® closed-loop feedback system assures character placement accuracy. And a zero-tear feature accurately positions continuous forms for a clean tear at the perforation to eliminate wasted stock.

**Sturdy and sophisticated** – Field-proven reliability is just one reason OKI MICROLINE printers are the most widely-used impact printers in North America<sup>4</sup>. The rugged, reliable OKI ML400 Series printers are sure to win you over, too!

Should you need technical assistance, you can speak to a live expert located in North America—24/7/365—by calling toll-free: 800-OKI-DATA (800-654-3282).<sup>5</sup>

**Expect more from OKI ML400 Series printers: faster speeds... better performance... greater reliability.**

### Highlights:

- Rated at 20,000 hours MTBF
- 3-year standard warranty<sup>5</sup>
- Print speeds up to 570 cps<sup>1</sup>
- Integrated USB and IEEE Parallel connectivity standard
- Available with OkiLAN® 10/100 Base-T Ethernet Internal<sup>6</sup> or External Print Server
- Crisp, clear printing – on letterhead or 6-part forms<sup>3</sup>
- Expandable head gap – accommodates multi-part forms and cut-sheet stock, including labels and stiff index stock
- 128 KB receive buffer/memory
- 4 million-character ribbon life
- 400-million character printhead life
- Small footprint – ideal for retail countertops

<sup>1</sup> ML490/491 up to 475 cps in Utility/Draft Mode.

<sup>2</sup> ML420/421 up to 95 cps in Near Letter-Quality mode.

<sup>3</sup> ML420/421 only; ML490/491 up to 5-part forms.

<sup>4</sup> 2010 Q4 IDC Quarterly Worldwide Tracker/Hardcopy Peripherals.

<sup>5</sup> Available in the U.S. and Canada only.

<sup>6</sup> Standard on ML420n/490n and ML421n/491n.



Narrow-carriage (ML420 and ML490)

Wide-carriage (ML421 and ML491)

# MICROLINE® 400 Series

## Specifications

### Technology, Speed and Print Characteristics

- **Printhead:** SIDM – ML420/421 9-pin; ML490/491 24-Pin
- **Graphics Resolution:**  
ML420/421 – 240 (H) x 216 (V) dpi maximum;  
ML490/491 – 360 (H) x 360 (V) dpi maximum
- **Feed Rate:** 4.5 ips (11.4 cm/sec.)
- **Print Speed (cps):**

	LQ	NLQ	Utility	HS Draft	SS Draft
ML420/421	n/a	95	380	510	570
Pitch (cpi)		10	10	10	12
ML490/491	105	n/a	315	420	n/a
Pitch (cpi)	10		10	10	

### Emulation, Interface and Memory

- **Emulation:**  
ML420/421 – Epson® FX, IBM® ProPrinter®, OKI MICROLINE  
ML490/491 – Epson LQ, IBM ProPrinter, IBM AGM,  
IBM XL24
- **Interface:** IEEE Parallel and USB on all models; also available with RS-232C Serial or OkiLAN® 10/100 Base-T Internal Print Server standard (see Ordering Information); Options include RS-232C Serial and OkiLAN 10/100 Base-T Internal or External Print Servers
- **Memory:** 128K

### Compatibility

- **Operating Systems:** Windows® 7, Vista® 32/64, XP, 2000, LINUX

### Paper Handling

- **Paper Input:** Single-part, Multi-part, Continuous forms, Cut sheet, Index stock, Envelopes, Labels
- **Number of Copies:** ML420/421 – original + 5;  
ML490/491 – original + 4
- **Thickness:** 0.017" (0.43 mm) maximum
- **Paper Feeding:** Rear Push and Friction Feed
- **Options:** Bottom Push Tractor, Top Pull Tractor, Cut Sheet Feeder, Roll Paper Stand

### Environmental

- **Size (WxDxH):**  
ML420 and ML490 – 15.7" x 13.6" x 6.0"  
(39.8 cm x 34.5 cm x 15.2 cm);  
ML421 and ML491 – 21.7" x 13.6" x 6.0"  
(55.1 cm x 34.5 cm x 15.2 cm)
- **Net Weight:**  
ML420 and ML490 – 13.0 lb. (5.9 kg);  
ML421 and ML491 – 17.2 lb. (7.8 kg)
- **Acoustic Noise:** 52 dBA to 56 dBA
- **Power Requirements:**  
120V Model: 100 VAC -10% ~ 127 VAC +10%;  
230V Model: 220 VAC -10% ~ 240 VAC +10%

### Power Consumption (Avg.):

	Printing	Idle	Sleep Mode <sup>2</sup>
ML420/421			
HS Draft	51W	4.5W max	2.0W – 4.2W
Utility	58W		
ML490/491			
HS Draft	60W	4.5W max	2.0W – 4.2W
Utility	78W		

### Warranty and Reliability

- **Limited Warranty:** 3-Year parts, labor and printhead<sup>1</sup>
- **MTBF:** 20,000 hours (25% duty cycle/35% page density)
- **Reliability (Monthly Duty Cycle):**  
ML420 – 24,000 pg.; ML421 – 17,000 pg.  
ML490 – 20,000 pg.; ML491 – 12,000 pg.
- **Printhead Life:** 400 million characters
- **Ribbon Life:** 4 million characters

**For more information** on OKI Impact Printers and supplies—including OKIcare® Extended Service Programs—please call, toll free, **1.800.OKI.DATA** (800.654.3282)<sup>1</sup> or visit our website: [www.okiprintingsolutions.com/us](http://www.okiprintingsolutions.com/us)

<sup>1</sup> Available in the U.S. and Canada only.

<sup>2</sup> Measured with and without options attached.

All specifications subject to change without notice.

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## Ordering Information

Description	Part Numbers	
MICROLINE 420 Parallel (120V)	62418701	
MICROLINE 420 Parallel (120V) Black	91909701	
MICROLINE 420 Parallel (230V)	62418702	
MICROLINE 420 Serial (120V) Black	91909703	
MICROLINE 420n (120V)	62418703	
MICROLINE 420n (120V) Black	91909704	
MICROLINE 421 Parallel (120V)	62418801	
MICROLINE 421 Parallel (230V)	62418802	
MICROLINE 421 Parallel (120V) Black	92009701	
MICROLINE 421 Serial (120V) Black	92009703	
MICROLINE 421n (120V)	62418803	
MICROLINE 421n (120V) Black	92009704	
MICROLINE 490 Parallel (120V)	62418901	
MICROLINE 490 Parallel (230V)	62418902	
MICROLINE 490n (120V)	62418903	
MICROLINE 491 Parallel (120V)	62419001	
MICROLINE 491 Parallel (230V)	62419002	
MICROLINE 491 Serial (120V)	62423901	
MICROLINE 491n (120V)	62419003	
<b>Accessories</b>		
Top-Mount Pull Tractor Kit with acoustic cover: ML420 and ML490	70030501	
ML421 and ML491	70030601	
Bottom Push Tractor Kit: ML420 and ML490	70030701	
ML421 and ML491	70030801	
Cut Sheet Feeder	70030101	
Roll Paper Stand (ML420 and ML490 only)	70023301	
RS-232C Serial Interface	44455101	
OkiLAN® 6130 10/100 Base-T Ethernet Internal Print Server	72008701	
Self-inking Ribbon Cartridge	42377801	
<b>OKIcare® Depot Warranty Extensions<sup>1</sup></b>		
	<b>U.S.</b>	<b>Canada</b>
ML420/421 4-Year Depot	38000801	38000811
ML420/421 5-Year Depot	38000802	38000812
ML490/491 4-Year Depot	38001801	38001811
ML490/491 5-Year Depot	38001802	38001812



## OKI DATA AMERICAS, INC.

**USA**  
2000 BISHOPS GATE BLVD.  
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FAX: 856.222.5320

**CANADA**  
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MISSISSAUGA, ONTARIO L5L 6A1  
TEL: 905.608.5000  
FAX: 905.608.5040

**LATIN AMERICA**  
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**OKI DATA DE MÉXICO, S.A. DE C.V.**  
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FAX: 55.5250.3501

**OKI DATA DO BRASIL INFORMÁTICA LTDA.**  
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